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SHARP 21FL94 OPERATION MANUAL

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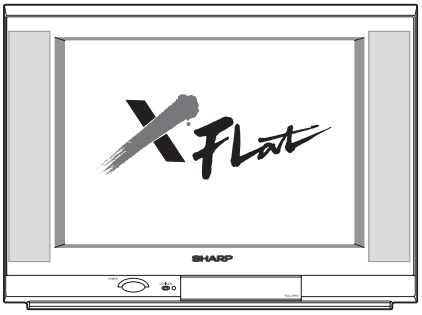
SHARP

B246 WJ

MODEL

21FL94

COLOR TELEVISION OPERATION MANUAL



NOM NYCE

READ THIS OPERATION MANUAL COMPLETELY BEFORE OPERATING THIS PRODUCT.

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21FL94_01_EN 1 27/2/04, 8:56 am

Dimension: 140mm x 215mm

Welcome to the SHARP Family. We are pleased that you are now the owner of a SHARP Color Television – built for outstanding quality, reliability and performance.
Every SHARP Color Television set is tuned and adjusted for proper color and sound, and has passed through the most stringent quality control tests at the factory. We have prepared this OPERATION MANUAL so that you may adjust the picture and color to your personal viewing preference.
We sincerely hope that you receive the greatest satisfaction and enjoyment from your new SHARP Color Television set for years to come.
Please read these instructions carefully, and keep them handy for your future reference.

IMPORTANT
To aid reporting in case of loss or theft, please record the TV's model and serial numbers in the space provided. The numbers are located at the rear of the TV.

Model No.:

Serial No.:

IMPORTANT INFORMATION

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO WET LOCATIONS.

CAUTION:
- Do not place the AC power cord under the TV set or other heavy items.
- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.
- To prevent fire or shock hazard, do not expose this products to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the product.

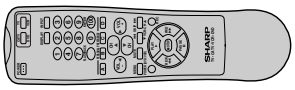
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

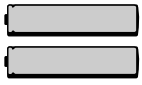
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

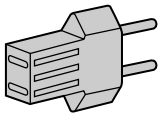
The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

Supplied Accessories


Infrared Remote Control


Dry batteries size "AA"/ 1.5 V cc


AC Plug Adaptor

21FL94_02-04_EN 2 19/3/04, 11:51 am
Dimension: 140mm x 215mm

IMPORTANT SAFEGUARDS

CAUTION: Please read all of these instructions before you operate your television and save these instructions for later use.

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. BUT IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. In order not to defeat the safeguards incorporated in this equipment, observe the following basic rules for its installation, use and servicing.

1. Unplug this television equipment from the wall outlet before cleaning.
2. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
3. Do not use attachments not recommended by the television equipment manufacturer as they may cause hazards.
4. Do not use this television equipment near water — for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool, etc.
5. Do not place this equipment on an unstable cart, stand, or table. The television equipment may fall, causing serious injury to a child or an adult, and serious damage to the equipment.

   Use only with a cart or stand recommended by the manufacturer or sold with the television equipment.

   Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.
6. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television equipment and to protect it from overheating, these openings must not be blocked or covered. This television equipment should not be placed in a built-in insulation such as a bookcase unless proper ventilation is provided.
8. The openings should never be covered with a cloth or other material, and the bottom openings should not be blocked by placing the television equipment on a bed, sofa, rug, or other similar surface. This television equipment should never be placed near or over a radiator or heat register.
9. This television equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company.
   For television equipment designed to operate from battery power, refer to the operating instructions.
   If the plug does not fit, ask your electrician to replace your obsolete outlet. Do not modify the plug and defeat this safety feature.
10. Do not allow anything to rest on the power cord. Do not locate this television equipment where the cord will be abused by persons walking on it.
11. As a safety feature, television equipment is equipped with a 2-wire polarized plug (one plug blade bigger than the other.) The 2-wire polarized plug will fit only one way into the power outlet.

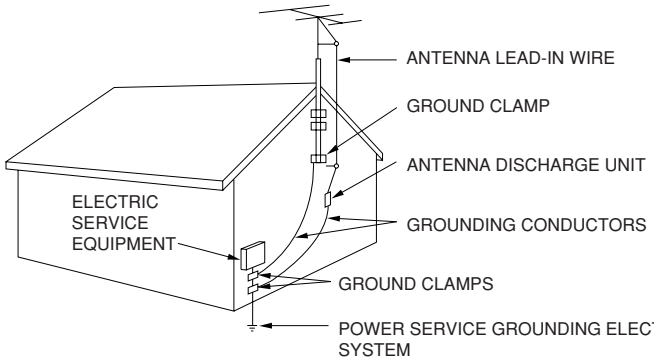
    If the plug does not fit, ask your electrician to replace your obsolete outlet. Do not modify the plug and defeat this safety feature.
12. Follow all warnings and instructions marked on the television equipment.
13. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

21FL94_02-04_EN 3 19/3/04, 11:51 am

Dimension: 140mm x 215mm

IMPORTANT SAFEGUARDS (Continued)

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE.



14. For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.

15. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16. Do not overload wall outlets and extension cords as this can result in fire or electric shock.

17. Never push objects of any kind into this television equipment through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television equipment.

18. Do not attempt to service this television equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Unplug this television equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    A. When the power cord or plug is damaged or frayed.
    B. If liquid has been spilled into the television equipment.
    C. If the television equipment has been exposed to rain or water.
    D. If the television equipment does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television equipment to normal operation .
    E. If the television equipment has been dropped or the cabinet has been damaged.
    F. When the television equipment exhibits a distinct change in performance — this indicates a need for service.

20. Upon completion of any service or repairs to this television equipment, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

21. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21FL94_02-04_EN 4 19/3/04, 11:51 am
Dimension: 140mm x 215mm

Before Operating Your Television

Location

- For normal operation, your TV should be located in an area of the room where cool adequate ventilation is provided. Do not place the back of the television set in a place where free airflow will be restricted.
- Any magnetic force may disturb the color picture. Make sure that magnets, electric clocks, toys using magnets or any other magnetic substance, such as iron are kept well away from the TV set.

Power

Your TV operates on 110-220 Volts, 50/60 Hz (normal household current).

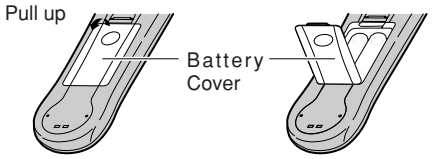
Note:

- If the set will not be used for a long period, such as during a vacation, unplug the set from the wall outlet to economize power. (If the TV set is plugged in, a slight current still flows, even with the POWER BUTTON in the OFF position.)
- Lines and other noise may appear in TV broadcast images when an FM tuner or radio is located near the TV and both radio and TV broadcasts are being received. Should such noise appear, turn off either the TV or the radio.
- If you are listening to an AM broadcast, turn the TV off. AM broadcast signals may not be received due to interference from the TV.

■ **Before using the television, prepare the Remote Control**

To use the remote control, insert batteries first.

Insert the batteries



- With your thumbnail, pull up the slit as indicated by the arrow to remove the back cover. Insert two batteries (size “AA”/ 1.5 V cc). Be sure to match the battery ⊕/⊖ terminals with the ⊕/⊖ marks inside the compartment.

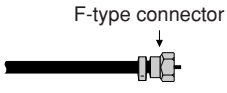
Antenna Connections

Antennas

- The antenna requirements for good color television reception are more important than those for black & white television reception. For this reason, a good quality outdoor antenna is strongly recommended.

  The following is a brief explanation of the type of connections that are provided with the various antenna systems:

1. A 75 ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (not supplied).



75-ohm coaxial cable (round)

2. A 300 ohm system is a flat “twin-lead” cable that can be attached to a 75 ohm terminal through a 300-75 ohm ADAPTOR (not supplied).

300-ohm twin-lead cable (flat)

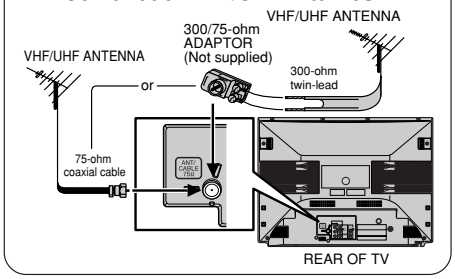
21FL94_05-10_EN 5 19/3/04, 11:52 am
Dimension: 140mm x 215mm

Antenna Connections (Continued)

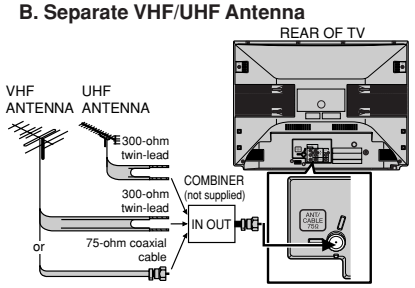
OUTDOOR ANTENNA CONNECTION

- Use one of the following two diagrams if you connect an outdoor antenna.
  A: Using a VHF/UHF combination outdoor antenna.
  B: Using separate VHF and/or UHF outdoor antenna.
- Connect an outdoor antenna cable lead-in to the COAXIAL CABLE CONNECTOR on the rear of the TV set.

A. Combination VHF/UHF Antennas

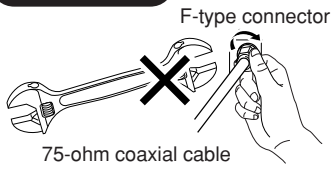


B. Separate VHF/UHF Antenna



NOTICE

F-type connector should be finger tightened only

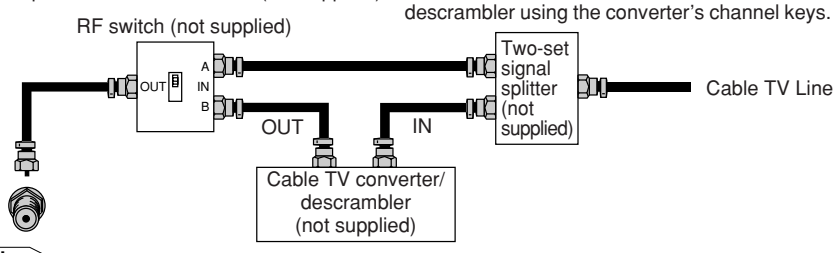


When connecting the RF cable to the TV set, do not tighten F-type connector with tools.
If tools are used, it may cause damage to your TV set.
(The breaking of Internal circuit, etc.)

CABLE TV (CATV) CONNECTION

- A 75 ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75 ohm coaxial cable to the set, screw the 75 ohm cable to the COAXIAL CABLE CONNECTOR.
- Some cable TV companies offer “premium pay channels”. Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company. This converter/descrambler is necessary for normal viewing of the scrambled channels. (Set your TV on channel 3 or 4. Typically one of these channels is used. If this is unknown, consult your cable TV company.) For more specific instructions on installing cable TV, consult your cable TV company. One possible method of utilizing the converter/descrambler provided by your cable TV company is explained below.
  Please note: RF switch equipped with position A/B (not provided) is required.

“A” position on the RF switch (not supplied) : You can view all unscrambled channels using the TV’s channel keys.
“B” position on the RF switch (not supplied) : You can view the scrambled channels via the converter/descrambler using the converter’s channel keys.



Note:

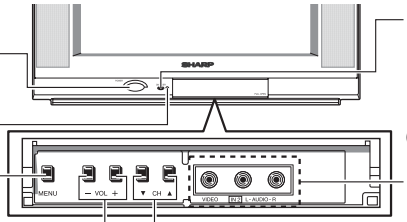
- Consult your SHARP Dealer or Service Center for the type of splitter, RF switch or combiner that might be required.

21FL94_05-10_EN 6 19/3/04, 11:52 am
Dimension: 140mm x 215mm

Quick Reference Control Operation

■ Location of Controls

Front Panel



POWER
Press → On.
Press again → Off.

ON TIMER indicator
Light up red when the ON TIMER is set.

SENSOR AREA FOR REMOTE CONTROL

(INSIDE DOOR)

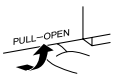
MENU
Press → Accesses MAIN MENU.
Press again → Exits MAIN MENU.

VIDEO IN 2 L-AUDIO-R

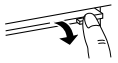
VOLUME UP/DOWN
(+) Increases sound.
(–) Decreases sound.

CHANNEL UP/DOWN
(▲) Selects next higher channel.
(▼) Selects next lower channel.

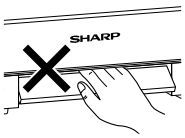
To open the door
Using the projection located under the "PULL-OPEN" indication, pull and lift the door open.



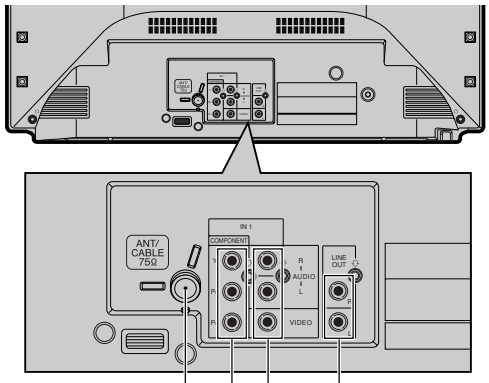
To close the door
Using the projection, lower the door until closed.



Caution:
- When opening or closing the door, do not insert your fingers into the gap between the door and front panel. This may result in an injury.



Rear Panel



LINE OUT TERMINALS

IN 1 TERMINALS

ANTENNA/CABLE INPUT TERMINAL

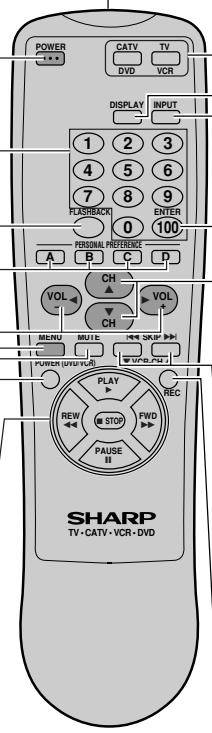
COMPONENT TERMINALS

21FL94_05-10_EN 7 19/3/04, 11:52 am

Dimension: 140mm x 215mm

Quick Reference Control Operation (Continued)

Basic Remote Control Functions



POWER
Press → On.
Press again → Off.

REMOTE KEYPAD
Accesses any channel from keypad.

FLASHBACK
Returns to previous channel.

PERSONAL PREFERENCE
With the Personal Preference buttons, you can program your favorite programs by using the 4 categories A, B, C and D. The channels can be accessed quickly by using these buttons. (See page E 30.)

VOLUME UP/DOWN
(+) Increases sound.
(–) Decreases sound.
• In menu mode, changes or selects the TV adjustments.

MENU
Press → Accesses MAIN MENU.
Press again → Exits MAIN MENU.

MUTE
Press → Mutes sound.
Press again → Restores sound.
• CLOSED CAPTION appears when sound is muted.

POWER (DVD/VCR)
Press → On.
Press again → Off.

DVD/VCR CONTROL
See page E 38.

Infrared Transmitter Window

CATV/DVD-TV/VCR MODE buttons
Press TV/VCR, sends power and channel select commands (Channel up/down and Random Access buttons) to the TV and VCR control.
Press CATV/DVD, sends power and channel select commands to a cable TV converter and DVD control.

DISPLAY
Press → Displays receiving channel for 4 seconds.
Press 2 times → Displays Off Timer, Sleep Timer, View Timer and Clock for 4 seconds.
Press 3 times → Removes display.
• Temporarily displays receiving channel when in Closed Caption mode.

INPUT
Press → Switch to external video INPUT 1 mode or COMPONENT mode.
Press 2 times → Switch to external video INPUT 2 mode.
Press 3 times → Switch back to the original TV mode.
See page E 36.

ENTER
Used in some instances where a Cable Converter Box requires an "enter" command after selecting channels, when using the **REMOTE KEYPAD** button. (See page E 38)

CHANNEL UP/DOWN
(▲) Selects next higher channel.
(▼) Selects next lower channel.
• See pages E 27 ~ E 29 for channel presetting.
• Moves the " ● " mark of the MENU screens.

SKIP/VCR-CH
See page E 38

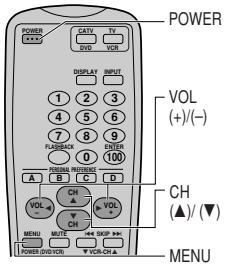
REC
See page E 38

Note:
- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

21FL94_05-10_EN 8 19/3/04, 11:52 am
Dimension: 140mm x 215mm

EZ SETUP during First Use

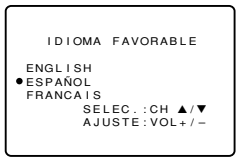
■ **When you turn on the TV for the first time, it will automatically memorize the broadcast channels.**
Please perform the following instructions before pressing the POWER button.
(1) Insert the batteries into the remote control. (See page E 5)
(2) Connect the antenna cable to the TV set. (See page E 5 ~ E 6)
(3) Plug in the AC POWER cord to the wall outlet.



1 Press ***POWER*** on the TV set or on the Remote Control to turn on the TV. The SELECT LANGUAGE mode will be displayed.

(On the Set) (Remote Control)

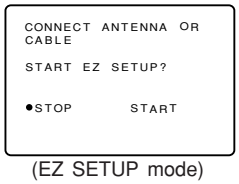
or



(SELECT LANGUAGE mode)

2 Press ***CH (▲)*** or ***(▼)*** to select "ENGLISH", "ESPAÑOL (SPANISH)" or "FRANCAIS (FRENCH)".

3 Press ***VOL (+)*** or ***(–)*** to SET LANGUAGE and access EZ SETUP mode.



(EZ SETUP mode)

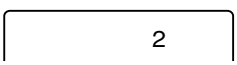
4 Press ***VOL (+)***.
The tuner will automatically search for the broadcast and cable TV channels. (The CH No. will automatically increase when it appears.)

If you want to stop the EZ SETUP process once it has started, press ***VOL (–)*** and it will be canceled.

If you want to SETUP again, please refer to page E 26 on EZ SETUP.

To cancel EZ SETUP
Press ***VOL (–)***.

5 Once EZ SETUP is completed, the lowest channel number memorized will be displayed.



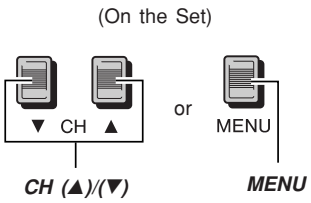
Note:

- If EZ SETUP does not memorize all the channels in your region, please refer to page E 27 ~ E 29 for more information on manually memorizing the channels using CHANNEL SETTING.
- It may be difficult to PRESET when the broadcast signals are weak, the channel cycle frequency is incorrect or frequency jamming is occurring around the area. Please refer to pages E 27 ~ E 29 for more information on manually memorizing the channels using CHANNEL SETTING.

21FL94_05-10_EN 9 19/3/04, 11:52 am
Dimension: 140mm x 215mm

Demo Mode

- To quickly learn more about the TV set, press and hold for more than three seconds both ***CH (▲)*** and ***(▼)*** or ***MENU*** on the TV set. The TV set will go into DEMO mode and briefly explain the various features.
- To cancel DEMO mode, again press both ***CH (▲)*** and ***(▼)*** or ***MENU*** on the TV set.



Example:
DEMO mode display

Accessing the MAIN MENU screen without Remote Control

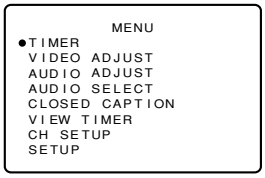
- If you misplaced your Remote Control you can still access most settings via the MAIN MENU screen when you press ***MENU*** on the TV set.
- Some features of your TV set will not be accessible without the Remote Control. If you lost your Remote Control, contact a Sharp Service Center for a replacement.

21FL94_05-10_EN 10 19/3/04, 11:52 am
Dimension: 140mm x 215mm

Language

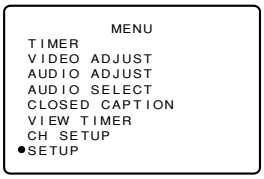
- **The language for the ON SCREEN DISPLAY can be set to ENGLISH, ESPAÑOL (SPANISH) or FRANCAIS (FRENCH).**
- **Setting the ON SCREEN DISPLAY Language.**

1 Press ***MENU*** to access the MAIN MENU screen.

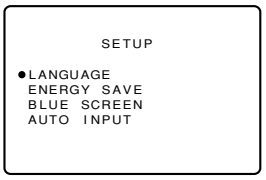


(MAIN MENU screen)

2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "SETUP".

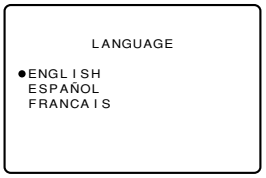


3 Press ***VOL (+)*** or ***(–)*** to access SETUP mode.



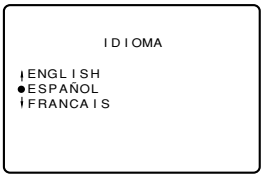
(SETUP mode)

4 Press ***VOL (+)*** or ***(–)*** to access LANGUAGE change mode.



(LANGUAGE change mode)

5 Press ***CH (▲)*** or ***(▼)*** to select "ENGLISH", "ESPAÑOL (SPANISH)" or "FRANCAIS (FRENCH)".



6 Press ***MENU*** to exit.

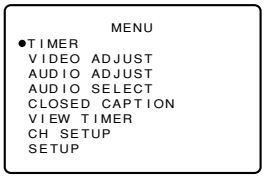
21FL94_11-22_EN 11 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Timer

■ SLEEP TIMER

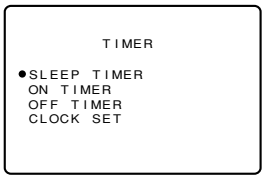
You can preset your television to turn off automatically in increments of 30, 60, 90, or 120 minutes.

1 Press ***MENU*** to access the MAIN MENU screen.



(MAIN MENU screen)

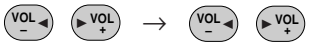
2 Press ***VOL (+)*** or ***(–)*** to access TIMER mode.

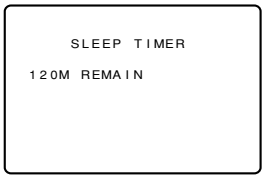


(TIMER mode)

3 Press ***VOL (+)*** or ***(–)*** to access SLEEP TIMER mode.

4 Press ***VOL (+)*** or ***(–)*** to set a sleep time of 30, 60, 90 or 120 minutes.





(SLEEP TIMER mode)

5 Press ***MENU*** to exit.

Note:

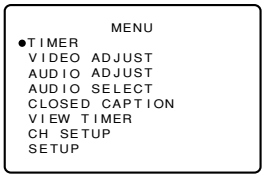
- To turn off the SLEEP TIMER, repeat the above SLEEP TIMER steps and select "– – – M REMAIN" during step **3**.
- While SLEEP TIMER is active, the time remaining will be briefly displayed on-screen at regular intervals or when the remote's **DISPLAY** key is pressed.

21FL94_11-22_EN 12 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Timer (Continued)

■ CLOCK SET

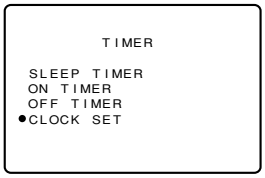
1 Press ***MENU*** to access the MAIN MENU screen.



(MAIN MENU screen)

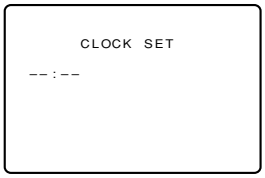
2 Press ***VOL (+)*** or ***(–)*** to access TIMER mode.

3 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CLOCK SET".



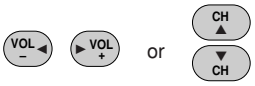
(TIMER mode)

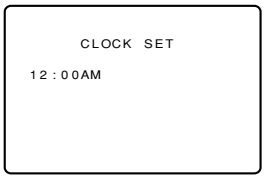
4 Press ***VOL (+)*** or ***(–)*** to access CLOCK SET mode.



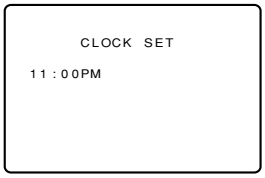
(CLOCK SET mode)

5 Press ***VOL (+)/(–)*** or ***CH (▲)/(▼)*** to set a CLOCK SET time.

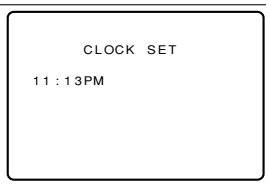




6 Press ***VOL (+)*** or ***(–)*** to select hour, then press ***CH (▲)*** or ***(▼)*** to change hour.



7 Press ***VOL (+)*** or ***(–)*** to select minute, then press ***CH (▲)*** or ***(▼)*** to change minute.



8 Press ***MENU*** to exit.

Note:

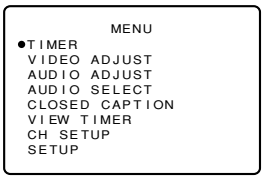
- "12:00 AM" will appear for the first time you access CLOCK SET mode during step **5**.
- To reset the CLOCK SET, turn off and on again the AC power supply.
- Depending on using condition, time may have a small deviation.

21FL94_11-22_EN 13 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Timer (Continued)

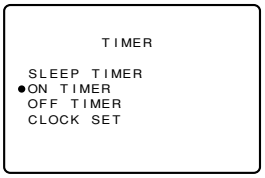
■ **ON TIMER**
Automatically turns TV power on at the time set.

1 Press ***MENU*** to access the MAIN MENU screen.



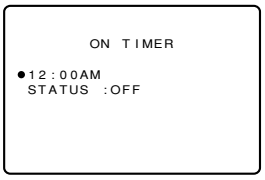
(MAIN MENU screen)

2 Press ***VOL (+)*** or ***(–)*** to access TIMER mode.
3 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "ON TIMER".



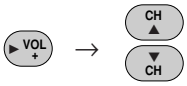
(TIMER mode)

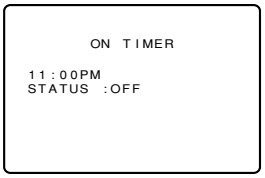
4 Press ***VOL (+)*** or ***(–)*** to access ON TIMER mode.



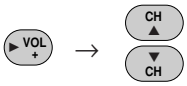
(ON TIMER mode)

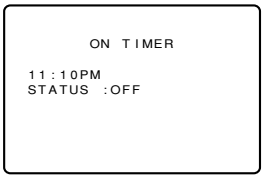
5 Press ***VOL (+)*** to select hour, then press ***CH (▲)*** or ***(▼)*** to change hour.



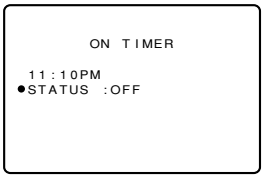


6 Press ***VOL (+)*** to select minute, then press ***CH (▲)*** or ***(▼)*** to change minute.





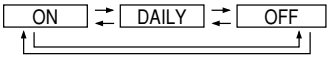
7 Press ***VOL (+)*** again to move the "●" mark to "STATUS" position.

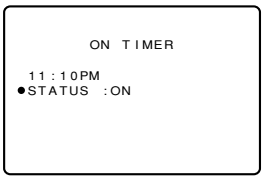


21FL94_11-22_EN 14 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Timer (Continued)

8 Press ***VOL (+)*** or ***(–)*** to change the STATUS setting.





Status: ON
The ON TIMER is activated. The ON TIMER indicator will lights up red to indicate ON TIMER is set.

Status: OFF
The ON TIMER will not operate. The ON TIMER indicator is off.

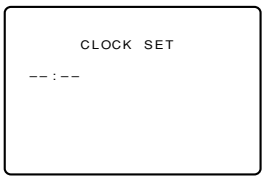
Status: DAILY
The ON TIMER is activated at the same time each day. The ON TIMER indicator will lights up red to indicate ON TIMER is set.

9 Press ***MENU*** to exit.

Note:

- The ON TIMER cannot be set when the CLOCK is not set. In this time, "PLEASE SET UP TIME" screen will appears for approximately 2 seconds.

- Then CLOCK SET screen will appear. Repeat step **5** ~ **8** in "CLOCK SET" steps. (Please refer to page E 13 on CLOCK SET.)
  If you do nothing, the CLOCK SET screen will disappear.
- If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

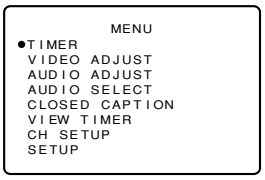


21FL94_11-22_EN 15 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Timer (Continued)

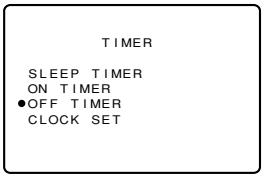
■ **OFF TIMER**
The OFF TIMER function will turn off the TV power when reach the set of time.

1 Press ***MENU*** to access the MAIN MENU screen.



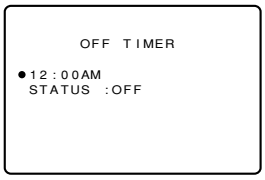
(MAIN MENU screen)

2 Press ***VOL (+)*** or ***(–)*** to access TIMER mode.
3 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "OFF TIMER".



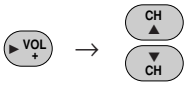
(TIMER mode)

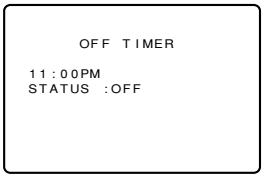
4 Press ***VOL (+)*** or ***(–)*** to access OFF TIMER mode.



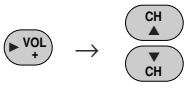
(OFF TIMER mode)

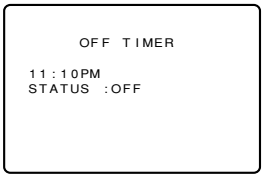
5 Press ***VOL (+)*** to select hour, then press ***CH (▲)*** or ***(▼)*** to change hour.



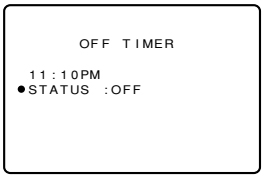


6 Press ***VOL (+)*** to select minute, then press ***CH (▲)*** or ***(▼)*** to change minute.





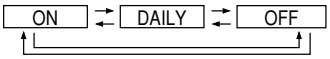
7 Press ***VOL (+)*** again to move the "●" mark to "STATUS" position.

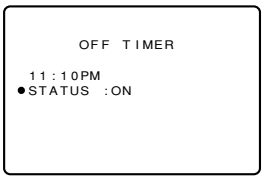


21FL94_11-22_EN 16 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Timer (Continued)

8 Press ***VOL (+)*** or ***(–)*** to change the STATUS setting.





Status: ON
The OFF TIMER is activated.

Status: OFF
The OFF TIMER will not operate.

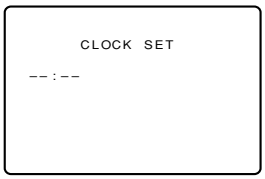
Status: DAILY
The OFF TIMER is activated at the same time each day.

9 Press ***MENU*** to exit.

Note:

- The OFF TIMER cannot be set when the CLOCK is not set. In this time, "PLEASE SET UP TIME" screen will appears for approximately 2 seconds.

- Then CLOCK SET screen will appear. Repeat step **5** ~ **8** in "CLOCK SET" steps. (Please refer to page E 13 on CLOCK SET.)
  If you do nothing, the CLOCK SET screen will disappear.
- For the last 5 minutes, the "OFF TIMER" will be displayed.
- "0M REMAIN" will be displayed for 10 seconds just before the OFF TIMER is complete.

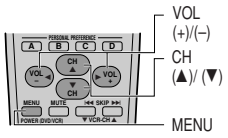


21FL94_11-22_EN 17 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Video Adjust

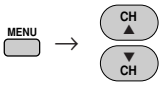
Description of Adjustment Items

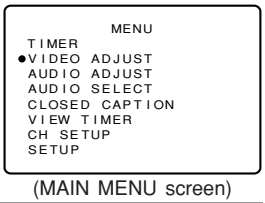
Selected item	VOL (+) button	VOL (–) button
PICTURE	To increase contrast	To decrease contrast
TINT	To make skin tones greenish	To make skin tones purplish
COLOR	To increase color intensity	To decrease color intensity
BRIGHT	To increase brightness	To decrease brightness
SHARP	To increase sharpness	To decrease sharpness
COLOR TEMP.	To choose a MH, HIGH, LOW or ML COLOR TONE.	
RESET	To return all adjustments to factory preset levels.	



1 Press ***MENU*** to access the MAIN MENU screen.

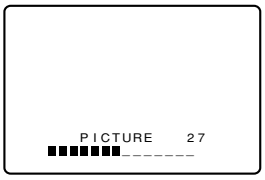
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "VIDEO ADJUST".





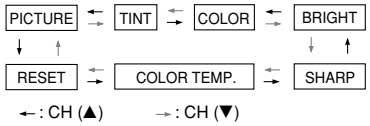
(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access PICTURE adjust mode.

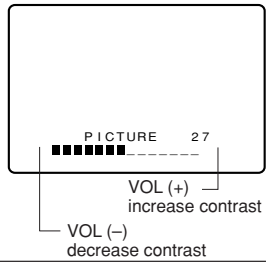


(PICTURE adjust mode)

4 Press ***CH (▲)*** or ***(▼)*** to select the desired mode.
(Refer to the diagram below.)



5 Press ***VOL (+)*** or ***(–)*** to adjust the setting.



6 Repeat steps **4** to **5** to adjust other settings.

7 Press ***MENU*** to exit.

Note:

- VIDEO ADJUST setting is available for AIR or CABLE/INPUT 1/INPUT 2 and COMPONENT respectively.

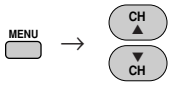
21FL94_11-22_EN 18 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

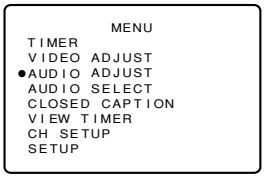
Audio Adjust

Selected item	VOL (+) button	VOL (–) button
TREBLE	To increase treble response	To decrease treble response
BASS	To increase bass response	To decrease bass response
BALANCE	To emphasize the right speaker's volume	To emphasize the left speaker's volume
RESET	To return all adjustments to factory preset levels.	

1 Press ***MENU*** to access the MAIN MENU screen.

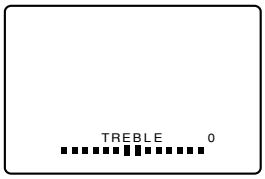
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "AUDIO ADJUST".





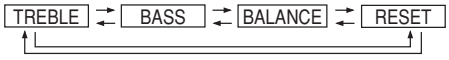
(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access TREBLE adjust mode.

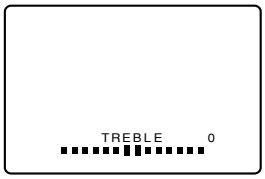


(TREBLE adjust mode)

4 Press ***CH (▲)*** or ***(▼)*** to select the desired mode.
(Refer to the diagram below.)



5 Press ***VOL (+)*** or ***(–)*** to adjust the setting.



6 Repeat steps **4** to **5** to adjust other settings.

7 Press ***MENU*** to exit.

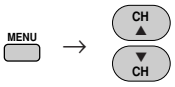
21FL94_11-22_EN 19 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

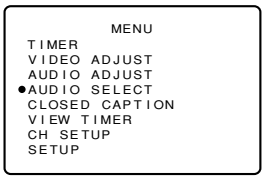
Audio Select

- **MTS (Multichannel TV Sound)**
  This circuit allows reception of stereo or bilingual TV sound.
- **INTERNAL SPEAKER SWITCH**
  This function turns the TV's internal speakers "ON" or "OFF" when listening to sound from external speakers by using the AUDIO OUTPUT JACKS on page E 37.
- **FAO (Fixed Audio Output)**
  This function turns the TV's internal speakers "OFF" and allows fixed audio output from the AUDIO OUTPUT JACKS on page E 37. With FAO, the TV's volume control is disabled.

1 Press ***MENU*** to access the MAIN MENU screen.

2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "AUDIO SELECT".

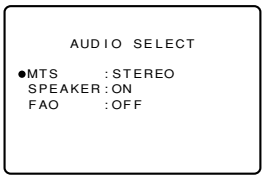




(MAIN MENU screen)

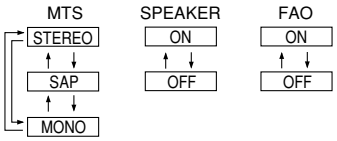
3 Press ***VOL (+)*** or ***(–)*** to access AUDIO SELECT mode.

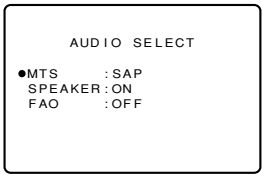
4 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "MTS", "SPEAKER" or "FAO".



(AUDIO SELECT mode)

5 Press ***VOL (+)*** or ***(–)*** to select "STEREO", "SAP" or "MONO" when the "●" mark is at "MTS" position.





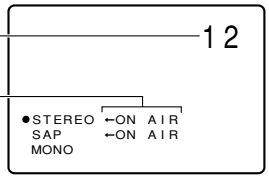
(AUDIO SELECT mode)

6 Press ***MENU*** to exit.

Ex: Actual screen indicating ON AIR when receiving STEREO broadcasts

Actual channel number

"← ON AIR" will appear next to STEREO or SAP when receiving STEREO or SAP broadcasts.



(CHANNEL call on screen)

21FL94_11-22_EN 20 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Audio Select (Continued)

■ **You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.**

- Stereo broadcasts
  Live television transmission of sports, shows, concerts, etc. can be received in dynamic stereo sound.
- SAP broadcasts
  Television broadcast can be received with either MAIN or SAP sound.
  MAIN sound: The normal program soundtrack. (Monaural or stereo where available.)
  SAP sound: Second language, supplementary commentaries, etc. (SAP sound is monaural.)

■ **If stereo sound is difficult to hear.**

- You can obtain clearer sound by manually switching to the fixed monaural mode.

Note:

- Once MONO mode is selected, the TV sound remains monaural even if the TV set receives a stereo broadcast. You must switch the mode back to STEREO if you want to hear stereo sound again.
- MTS while in the INPUT mode does not change the type of sound; in this case, sound is determined by the video source.
- If the “FAO” mode is selected “ON”, the “SPEAKER” mode will automatically turn “OFF”. “SPEAKER” selecting will not affect “FAO” mode.

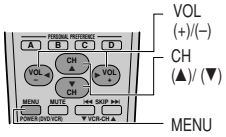
21FL94_11-22_EN 21 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

Closed Caption

■ HOW TO SET CLOSED CAPTION

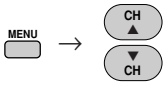
- Your TV is equipped with an internal Closed Caption decoder. "Closed Caption" is a system which allows you to view conversations, narration, and sound effects in TV programs and home videos as subscript on your TV screen as shown on the right.
- Not all the programs and videos will offer closed caption. Please look for the " CC " symbol to ensure that captions will be shown.
- Closed Caption broadcast can be viewed in two modes: CAPTION and TEXT. For each mode, two channels are available, CH1 and CH2:

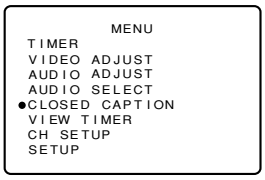
  The [CAPTION] mode subscripts dialogues and commentaries of TV dramas and news programs while allowing clear view of the picture. The [TEXT] mode displays over the picture other various information (such as TV program schedule, weather forecast, etc.) that is independent of the TV programs.



1 Press ***MENU*** to access the MAIN MENU screen.

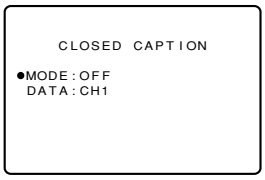
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CLOSED CAPTION".





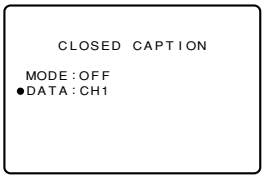
(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access CLOSED CAPTION setting mode.



(CLOSED CAPTION setting mode)

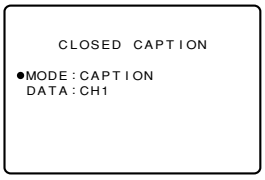
4 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to either "MODE" or "DATA".



5 Press ***VOL (+)*** or ***(–)*** to change the CLOSED CAPTION setting.

MODE : CAPTION ↑↓ TEXT ↑↓ OFF

DATA : CH 1 ↑↓ CH 2



6 Press ***MENU*** to exit.

Note:

- If a broadcast has CLOSED CAPTION and the ***MUTE*** is pressed, the set enters [CAPTION] mode automatically. Pressing ***MUTE*** again will return the set to its previous condition.
- CLOSED CAPTION may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are problems at the broadcast source. This does not necessarily indicate a problem with your TV.
- If any button is pressed to call up the ON SCREEN DISPLAY while viewing a CLOSED CAPTION broadcast, the CLOSED CAPTION will disappear momentarily.
- When viewing in TEXT mode, if no TEXT broadcast is being received, for some programs the screen may become dark and blank. Should this occur, set the CLOSED CAPTION mode to "OFF".

21FL94_11-22_EN 22 22/3/04, 3:11 pm
Dimension: 140mm x 215mm

VIEW TIMER

■ VIEW TIMER

This function allows you to restrict TV viewing time and also allows you to control TV usage. This function is to prevent your children from watching too much TV.

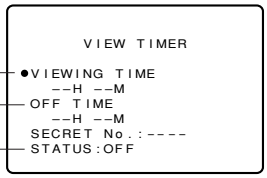
VIEWING TIME (an accumulative timer: counts only the time duration acquired while the TV is on.)

- VIEWING TIME can be set from 30M (30 minutes) to 10H00M (10 hours) in 30 minutes intervals.

OFF TIME (Restricts TV watching after the VIEWING TIME reaches zero.)

- OFF TIME can be set from 30M (30 minutes) to 10H00M (10 hours) in 30 minutes intervals.

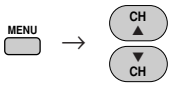
STATUS (ON/OFF setting of VIEW TIMER)

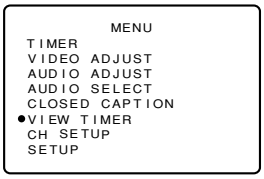


■ How to set VIEW TIMER.

1 Press ***MENU*** to access the MAIN MENU screen.

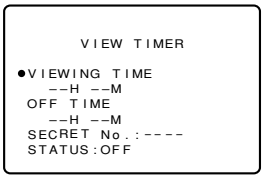
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "VIEW TIMER".





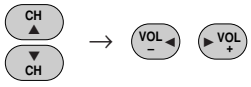
(MAIN MENU screen)

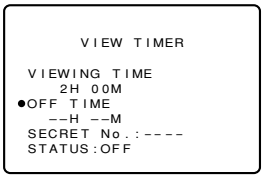
3 Press ***VOL (+)*** or ***(–)*** to access VIEW TIMER mode.



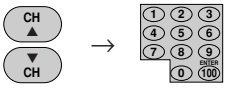
(VIEW TIMER mode)

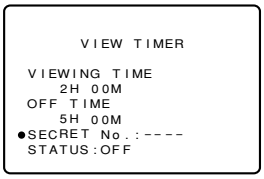
4 Press ***CH (▲)*** or ***(▼)*** to select "VIEWING TIME" and "OFF TIME". For each selection, press ***VOL (+)*** or ***(–)*** to set the time duration.



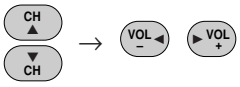


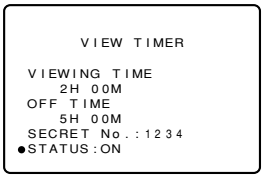
5 Press ***CH (▲)*** or ***(▼)*** to select "SECRET No.". Enter a 4-digit SECRET No. using ***REMOTE KEYPAD***.





6 Press ***CH (▲)*** or ***(▼)*** to select "STATUS". Press ***VOL (+)*** or ***(–)*** to turn ON the "VIEW TIMER". (If STATUS is OFF, VIEW TIMER will not operate.)



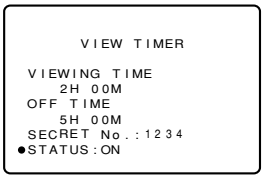


7 Press ***MENU*** to exit.

VIEW TIMER (Continued)

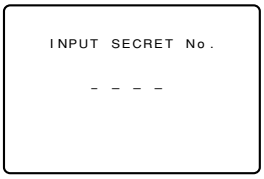
Example

- To restrict anybody from watching the TV for 5 hours, after watching the TV for 2 hours, your settings would look like this:
- They can choose to watch the 2 hours of TV however they wish. For example, they could watch 1 hour of TV, turn TV off for 30 minutes, then turn TV on and watch the remaining 1 hour on the VIEWING TIMER.

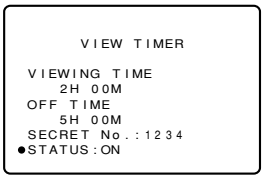


■ **To change the VIEW TIMER settings. (SECRET No. is registered)**

1 Repeat "How to set VIEW TIMER" steps and select "VIEW TIMER" during step **2**. Press ***VOL (+)*** or ***(–)***, and "INPUT SECRET No." will be displayed.

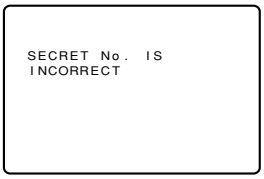


2 Enter the 4-digit SECRET No. using the ***REMOTE KEYPAD***, and the VIEW TIMER mode will be displayed. Repeat step **4** ~ **7**.



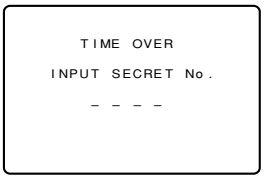
Note:

- When you choose the correct SECRET No., the VIEW TIMER mode is displayed. If the wrong SECRET No. is chosen, "SECRET No. IS INCORRECT" is displayed. Input the SECRET No. again in this case.

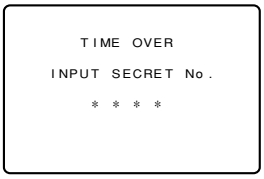


■ **To cancel the VIEW TIMER (While the TV set is OFF but the VIEW TIMER is set)**

1 Turn on TV; a blue screen message "TIME OVER" will appear. If you do nothing, the TV will turn off in approximately 30 seconds.



2 Enter the 4-digit SECRET No. using the ***REMOTE KEYPAD***. When you choose the correct SECRET No., the VIEW TIMER is canceled. If the wrong SECRET No. is chosen, "SECRET No. IS INCORRECT" is displayed. Input the SECRET No. again in this case.

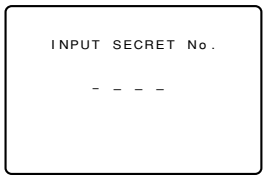


21FL94_23-29_EN 24 25/2/04, 4:24 pm
Dimension: 140mm x 215mm

VIEW TIMER (Continued)

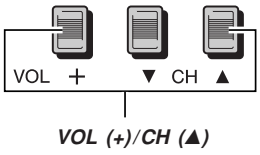
■ **To cancel the VIEW TIMER setting or change the SECRET No. (When you forget the SECRET No.)**

1 Repeat “How to set VIEW TIMER” steps and select “VIEW TIMER” during step **2**. Press ***VOL (+)*** or ***(–)***, and “INPUT SECRET No.” will be displayed.



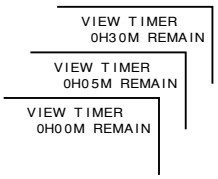
2 Press and hold both ***VOL (+)*** and ***CH (▲)*** on the TV set simultaneously until the VIEW TIMER mode is displayed. Now you can cancel the VIEW TIMER settings or change the SECRET No. while “INPUT SECRET No.” is displayed.

(On the Set)



■ **Notice of Remaining VIEWING TIME**

- For every 30 minute interval, the “remaining time” will be displayed for 4 seconds. For the last 5 minutes, the “remaining time” will be displayed every minute.
- “0H00M REMAIN” will be displayed for 10 seconds just before the VIEWING TIME is complete.

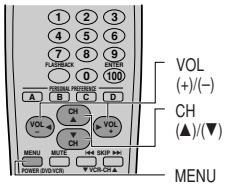


21FL94_23-29_EN 25 25/2/04, 4:24 pm
Dimension: 140mm x 215mm

Ch Setup

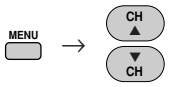
■ EZ SETUP

By operating the channel preset functions, you can preset your TV to the desired channels for viewing.



1 Press ***MENU*** to access the MAIN MENU screen.

2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH SETUP".




```
MENU
TIMER
VIDEO ADJUST
AUDIO ADJUST
AUDIO SELECT
CLOSED CAPTION
VIEW TIMER
●CH SETUP
SETUP
```

(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access CH SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "EZ SETUP".

```
CH SETUP
AIR/CABLE
CH MEMORY
CH SEARCH
PERSONAL PREF.
UNIVERSAL PLUS
●EZ SETUP
```

(CH SETUP mode)

4 Press ***VOL (+)*** or ***(–)*** to access EZ SETUP mode.

```
CONNECT ANTENNA OR
CABLE

START EZ SETUP?

●STOP        START
```

(EZ SETUP mode)

5 Press ***VOL (+)***.
The tuner will automatically search for the broadcasting and cable TV channels. (The CH No. will automatically increase when it appears.)

If you want to stop the EZ SETUP process once it has started, press ***VOL (–)***. Search will be canceled.

To cancel EZ SETUP
Press ***VOL (–)***.

```
PLEASE WAIT

AUTO PROGRAMMING

     125

 STOP        ●START
```

6 Once EZ SETUP is completed, the lowest channel number memorized will be displayed.

```
2
```


21FL94_23-29_EN 26 25/2/04, 4:24 pm
Dimension: 140mm x 215mm

Ch Setup (Continued)

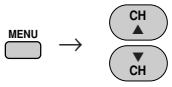
■ **CHANNEL SETTING**

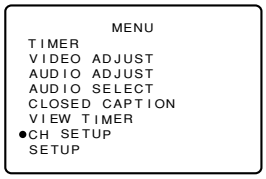
If EZ SETUP does not memorize all the channels in your region, follow the instructions below to manually memorize the channel.

1 **AIR/CABLE setting**

1 Press ***MENU*** to access the MAIN MENU screen.

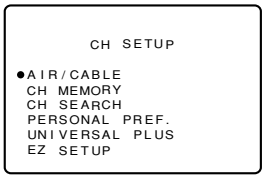
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH SETUP".





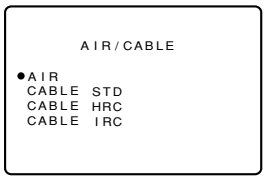
(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access CH SETUP mode.



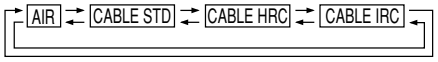
(CH SETUP mode)

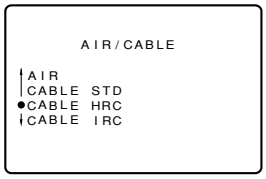
4 Press ***VOL (+)*** or ***(–)*** to access AIR/CABLE mode.



(AIR/CABLE mode)

5 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to the desired mode.





(AIR/CABLE mode)

6 Press ***MENU*** to exit.

Note:

- Receivable channels of your TV set are:
  AIR channels:
  VHF: 2 through 13.
  UHF: 14 through 69.
  CABLE channels:
  1 (HRC and IRC mode only)
  2 through 125 (STD, HRC and IRC)

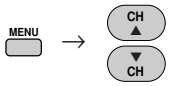
21FL94_23-29_EN 27 25/2/04, 4:24 pm
Dimension: 140mm x 215mm

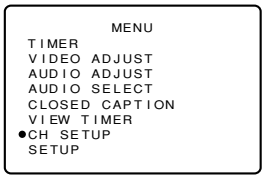
Ch Setup (Continued)

2 **How to saving broadcast TV channels into memory.**

1 Press ***MENU*** to access the MAIN MENU screen.

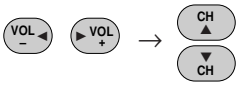
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH SETUP".

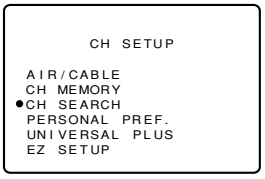




(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access CH SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH SEARCH".





(CH SETUP mode)

4 Press ***VOL (+)*** or ***(–)*** to access CH SEARCH mode.

To Start:

Press ***VOL (+)***. The tuner will search through all available channels in your area and add them into the TV's memory.

(START)

To Stop:

Press ***VOL (–)***. CH SEARCH will stop at the current channel and will not add any higher channels.

(STOP)

(CH SEARCH mode)

5 Press ***MENU*** to exit.

Note:

- If you press ***VOL (+)*** again while in the CH SEARCH mode, auto-program will start again, and the previously memorized channels will be lost.

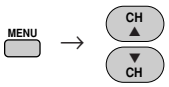
21FL94_23-29_EN 28 25/2/04, 4:24 pm
Dimension: 140mm x 215mm

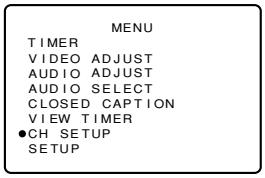
Ch Setup (Continued)

3 **How to adding weak or additional channels or erasing unwanted channels from TV memory.**

1 Press ***MENU*** to access the MAIN MENU screen.

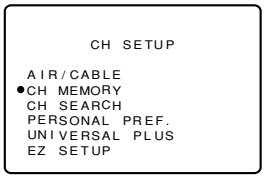
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH SETUP".





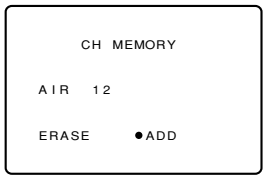
(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access CH SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH MEMORY".



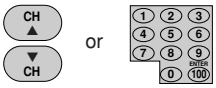
(CH SETUP mode)

4 Press ***VOL (+)*** or ***(–)*** to access CH MEMORY mode.



(CH MEMORY mode)

5 Use ***CH (▲)*** or ***(▼)*** or ***REMOTE KEYPAD*** to select each desired channel to add or erase.



6 Press ***VOL (+)*** to add a channel to the TV's memory or press ***VOL (–)*** to erase a channel from the TV's memory.

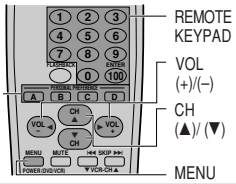
7 Press ***MENU*** to exit.

21FL94_23-29_EN 29 25/2/04, 4:24 pm
Dimension: 140mm x 215mm

Ch Setup (Continued)

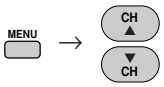
■ PERSONAL PREFERENCE

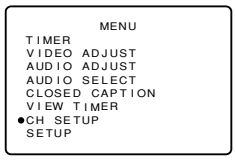
By setting the PERSONAL PREFERENCE channels in advance, you can select your favorite channels easily.



1 Press ***MENU*** to access the MAIN MENU screen.

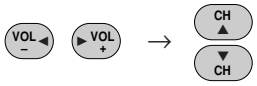
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH SETUP".

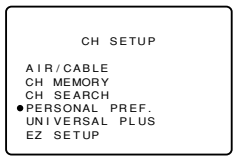




(MAIN MENU screen)

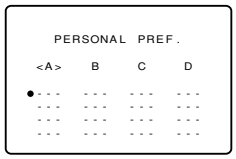
3 Press ***VOL (+)*** or ***(–)*** to access CH SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "PERSONAL PREFERENCE".





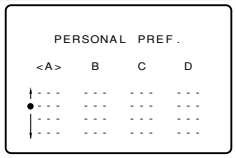
(CH SETUP mode)

4 Press ***VOL (+)*** or ***(–)*** to select PERSONAL PREFERENCE select mode in which you can program 4 favorite channels, in 4 different categories. (total of 16 channels)



(PERSONAL PREFERENCE select mode)

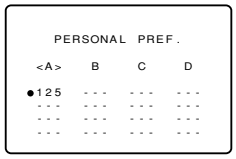
5 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to the desired position.



6 Press ***REMOTE KEYPAD*** on the Remote to input the CHANNEL Number into the memory.

Example:

125 — Press "100" followed by "2" and then "5".
25 — Press "2" and then "5".
4 — Press "0" and then "4".



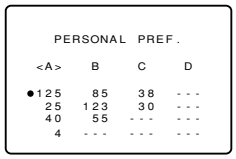
7 Repeat steps **4** to **6** to input the next CHANNEL Number.

8 Press ***MENU*** to exit.

To select the PERSONAL PREFERENCE channel.

If the channels are memorized as shown to the right, press the Remote's "***A***" button to select the Channels below.

125 → 25 → 40 → 4

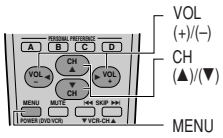


21FL94_30-34_EN 30 3/3/04, 11:08 am
Dimension: 140mm x 215mm

Ch Setup (Continued)

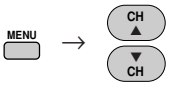
■ **UNIVERSAL PLUS FUNCTION**

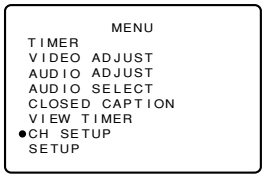
VCR or DVD input mode will be selected automatically by pressing the VCR or DVD PLAY buttons on the UNIVERSAL REMOTE CONTROL.



1 Press ***MENU*** to access the MAIN MENU screen.

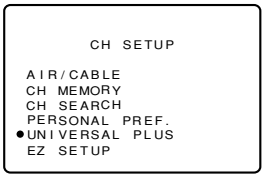
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "CH SETUP".





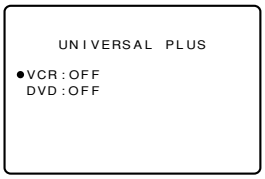
(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access CH SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "UNIVERSAL PLUS".

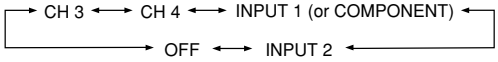


(CH SETUP mode)

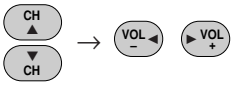
4 Press ***VOL (+)*** or ***(–)*** to access UNIVERSAL PLUS to select VCR or DVD mode.

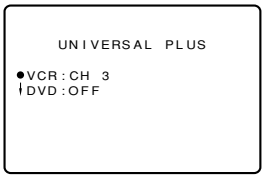


5 Press ***CH (▲)*** or ***(▼)*** to select the VCR or DVD, and press ***VOL (+)*** or ***(–)*** to select "CH3, CH4", "INPUT 1 (or COMPONENT)", "INPUT 2" or "OFF".



Set mode to the input in which your VCR or DVD is connected to. If done through RF, select either channel 3 or 4 to match the setting of the VCR or DVD.





(UNIVERSAL PLUS select mode)

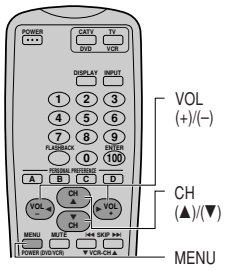
6 Press ***MENU*** to exit.

21FL94_30-34_EN 31 3/3/04, 11:08 am
Dimension: 140mm x 215mm

Set Up

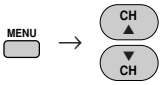
■ ENERGY SAVE

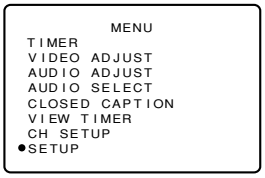
This feature lets you lower the power consumption of your TV set which in turn saves you money and minimizes the impact on the environment. When this feature is turned on, it reduce the brightness of the TV to a level that consumes approximately 20 percent less energy than when the feature is turned off.
The reduction in brightness will be less noticeable under low room lighting conditions.



1 Press ***MENU*** to access the MAIN MENU screen.

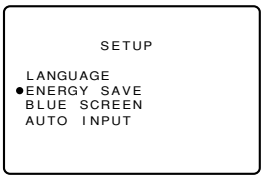
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "SETUP".





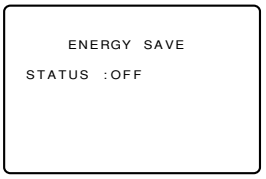
(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "ENERGY SAVE".



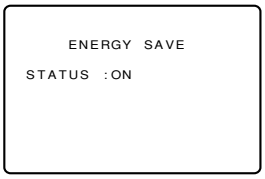
(SETUP mode)

4 Press ***VOL (+)*** or ***(–)*** to access ENERGY SAVE select mode.



(ENERGY SAVE select mode)

5 Press ***VOL (+)*** or ***(–)*** to select "ON".



6 Press ***MENU*** to exit.

21FL94_30-34_EN 32 3/3/04, 11:08 am
Dimension: 140mm x 215mm

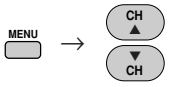
Set Up (Continued)

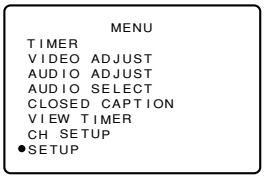
■ **BLUE SCREEN**

Automatically turns the screen blue if a broadcast signal is not received.

1 Press ***MENU*** to access the MAIN MENU screen.

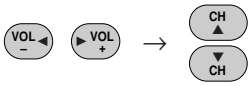
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "SETUP".

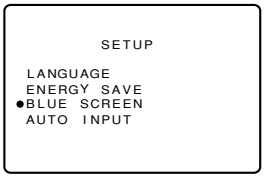




(MAIN MENU screen)

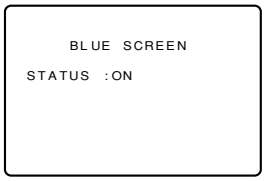
3 Press ***VOL (+)*** or ***(–)*** to access SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "BLUE SCREEN".





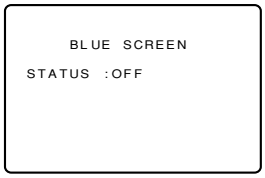
(SETUP mode)

4 Press ***VOL (+)*** or ***(–)*** to access BLUE SCREEN select mode.



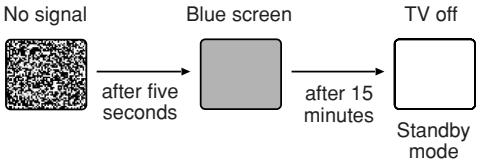
(BLUE SCREEN select mode)

5 Press ***VOL (+)*** or ***(–)*** to select "OFF" or "ON".



6 Press ***MENU*** to exit.

When BLUE SCREEN is set to "ON".



Note:

- Poor reception due to weak signals, or too much noise might activate the BLUE SCREEN function despite the presence of a broadcast signal. To continue watching TV under these conditions, switch the BLUE SCREEN "OFF".

21FL94_30-34_EN 33 3/3/04, 11:08 am
Dimension: 140mm x 215mm

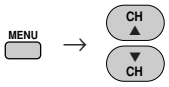
Set Up (Continued)

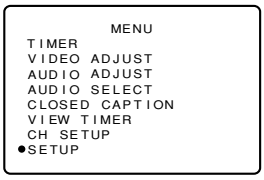
■ AUTO INPUT

The unit is preset to switch to the INPUT 2 mode automatically when VIDEO equipment is connected to the INPUT 2 terminal. Do the following to switch this feature off:

1 Press ***MENU*** to access the MAIN MENU screen.

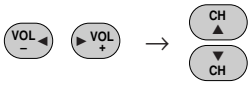
2 Press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "SETUP".

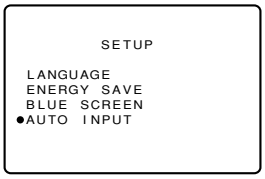




(MAIN MENU screen)

3 Press ***VOL (+)*** or ***(–)*** to access SETUP mode, then press ***CH (▲)*** or ***(▼)*** to move the "●" mark to "AUTO INPUT".

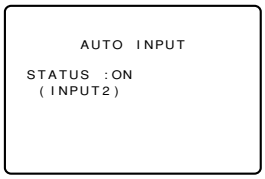




(SETUP mode)

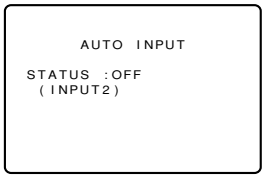
4 Press ***VOL (+)*** or ***(–)*** to access AUTO INPUT select mode.

5 Press ***VOL (+)*** or ***(–)*** to select "OFF" or "ON".



(AUTO INPUT select mode)

6 You may turn off "AUTO INPUT" when it is not in use.
Press ***VOL (+)*** or ***(–)*** to select "OFF".



7 Press ***MENU*** to exit.

21FL94_30-34_EN 34 3/3/04, 11:08 am
Dimension: 140mm x 215mm

Using the Video and Audio Input Terminals

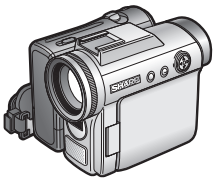
■ **Connecting video equipment for playback of video material.**

• When the television is connected to video equipment as shown below, the material being played back on the video equipment can be seen on the television screen.

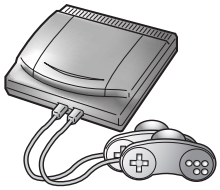
Connecting video device equipped with video output terminals.

CONNECTIONS

VIDEO EQUIPMENT



CAMCORDER



TV GAME

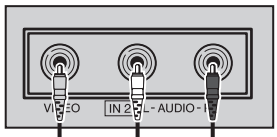
VCR

DVD

Yellow : To video input terminal
White : To audio input (L) terminal
Red : To audio input (R) terminal

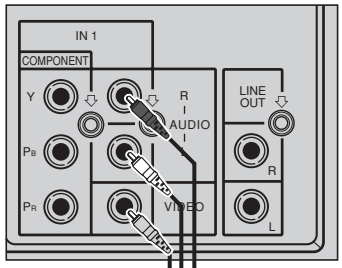
(Front connection terminals of TV)

(Pull open for inside door)



To VIDEO OUTPUT
To AUDIO OUTPUT (L)
To AUDIO OUTPUT (R)

(Rear connection terminals of TV)

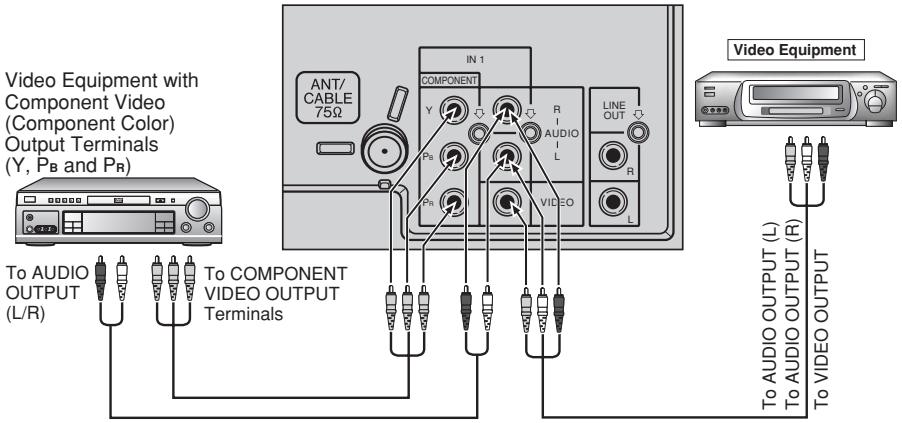


To VIDEO OUTPUT
To AUDIO OUTPUT (L)
To AUDIO OUTPUT (R)

21FL94_35-41_EN 35 11/3/04, 6:11 pm
Dimension: 140mm x 215mm

Using the Video and Audio Input Terminals (Continued)

(Rear connection terminals of TV)



■ **To watch video material playback.**

- Press the Remote's ***INPUT*** to select the VIDEO INPUT mode for the video equipment you wish to play**.**
- The external VIDEO INPUT mode will change as follows each time the ***INPUT*** is pressed.

AIR or CABLE → INPUT 1 (or COMPONENT) (IN 1) Rear → INPUT 2 (IN 2) Front

- When the AV cables are being connected to the VIDEO INPUT 1 and COMPONENT Y terminals simultaneously, the COMPONENT terminal has priority over the VIDEO terminal.
- INPUT mode can be selected by pressing either the ***CH (▲)*** on the TV remote control when the TV is set to the highest channel stored in memory, or by pressing the ***CH (▼)*** when it is set to the lowest channel.

Note:

- When connecting video or audio equipment to the television, be sure that the power is turned off in order to prevent damage to either the television or the equipment being connected.
- For detailed information on the connection and use of auxiliary equipment, refer to the instruction manuals of the equipment being used.
- The connection cords can be obtained from your local video store.

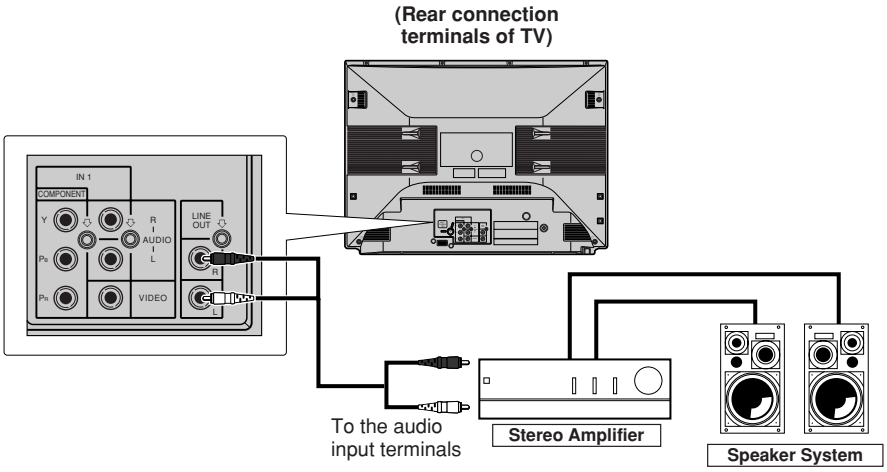
21FL94_35-41_EN 36 11/3/04, 6:11 pm
Dimension: 140mm x 215mm

Using the Audio Output Terminals

■ **These terminals are used for connecting an external audio amplifier. The STEREO/MONO/SAP, VOLUME, MUTE and FAO functions can all be controlled via the television's remote control or directly on the TV itself. These terminals relay the audio signal of all programs being displayed on the TV screen.**

(AUDIO OUTPUT terminals are located on the rear of the cabinet.)

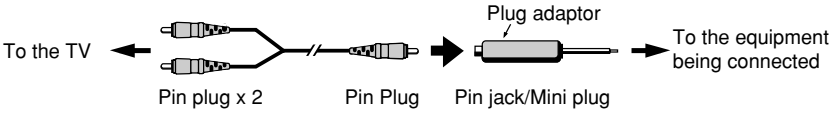
CONNECTIONS



(1) Before connecting the cables, turn on the TV and adjust the VOLUME control on the TV to a moderate listening level.
(2) Turn off the TV and connect the audio cables to the AUDIO LINE OUTPUT terminals on the TV.
(3) Turn the TV set and stereo amplifier on.
(4) If you desire, you can turn off the sound to the TV's internal speakers by acessing the TV's AUDIO SELECT mode. See page E 20 ~ E 21.
(5) Adjust the VOLUME control on the stereo amplifier for a moderate listening level.
(6) Control of the audio can be adjusted using the audio controls (STEREO/MONO/SAP, VOLUME, MUTE and FAO), from either the remote control, or directly from the TV set.

Note:

- For detailed information on the connection and use of auxiliary equipment, refer to the operation manuals of the equipment being used.
- When connecting monaural equipment to the AUDIO INPUT or OUTPUT of this set, use an audio connection cord and plug adaptor as shown below.
- For optimal sound quality, we recommend you to keep the TV's audio output level high.



21FL94_35-41_EN 37 11/3/04, 6:11 pm
Dimension: 140mm x 215mm

Operation of Remote Control

■ Universal Remote Control

With the purchase of your television set you also have received the latest innovation in remote control technology. With its easy-to-use push button keyboard, your Remote can control your television set and most infrared remote controlled VCRs, cable TV converters and DVDs as well.

Note:

- Depending on the model, year produced, brand and type of VCR, cable TV converter and DVD, some models may not be compatible with the remote control.
- Some brands may not enable channel selection until the ***ENTER*** is pressed. In such case, try the following

Example:
When you select channel 24,
(1) Press ***REMOTE KEYPAD*** "2".
(2) Press ***REMOTE KEYPAD*** "4".
(3) Press ***ENTER***.
For detailed information on the use of the Cable TV converter Box refer to their operating manuals.

■ Using Your Remote With Your TV

After installing the batteries, press the ***TV/VCR*** on the remote to select the TV mode. (If you can change the channel of the TV by pressing ***CH (▲)*** or ***(▼)*** on the Remote Control, it is the TV mode.)

■ "Identifying" VCRs, cable TV converters and DVDs

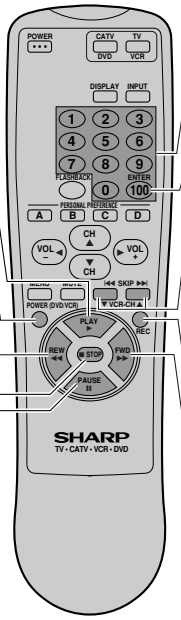
Your Remote Control has been set at the factory to operate your TV and many remote controlled VCRs, cable TV converters and DVDs. However, in some cases an easy one-time set-up step may be necessary before the Remote will operate accessory VCRs, cable TV converters and DVDs.

- In this set-up step, the Remote locates and memorizes the remote control transmitter code for the VCR, cable TV converters and DVDs.
- Once "identified", the Remote sends the proper remote signals to operate your accessory.
- This identify step will not have to be repeated until power to the Remote is interrupted due to a battery failure.

■ Using your remote control with a VCR

Once you make certain the Remote Control has "identified" your remote controlled VCR or DVD, the Remote Control is ready to operate your unit. The various VCR or DVD function buttons on the Remote Control will not operate your VCR or DVD if those features are not already found on your unit.

- All VCR buttons will operate whether the Remote Control is in TV or VCR modes.
- For detailed information on the use of the VCR or DVD, refer to the operation manual of the VCR or DVD.



PLAY ►
Press to playback a tape or disc.

POWER (DVD/VCR)
Press to turn the VCR or DVD on and off.

REWIND ◄◄
Press to rewind a tape or reverse a disc. For some VCRs or DVDs you may need to press STOP first, then REWIND.

STOP ■
Press to stop the tape or disc.

PAUSE ❚❚
Press to temporarily stop the tape or disc during playback or recording (VCR only).
Press again to release PAUSE.

REMOTE KEYPAD
Use to enter two-digit code numbers when identifying your VCR, DVD and CATV converter.

ENTER

VCR CH (▲)/(▼)
Press to scan up or down through channels on the VCR.

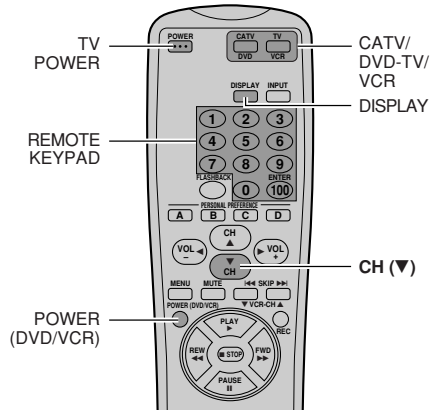
DVD SKIP ⏮◄◄ ►►⏭
Press to jump forward to the beginning of the next chapter/track, or backward to the beginning of the current chapter/track, and automatically start to play that chapter/track.

REC
Press to begin recording (VCR only).

FF ►►
Press to rapidly advance the tape or disc. For some VCRs or DVDs, you may need to press STOP first, then FF.

21FL94_35-41_EN 38 11/3/04, 6:12 pm
Dimension: 140mm x 215mm

Operation of Remote Control (Continued)



- **How to identify a VCR**

  The remote control may already be set to operate your VCR. Try this initial check before going on to the following "identifying" section.

(1) Press ***TV/VCR***.
(2) Point the Remote towards VCR and press ***POWER (DVD/VCR)***.
(3) Does the Remote turn the VCR ON and OFF?
  - If yes, the Remote is ready to operate the VCR and no further steps are needed.
  - If no, continue to the "identifying" section.

Setting Method

Refer to the following steps and list to quickly find the remote control code for your accessory VCR.

- First look up your VCR's remote control code number before going through the Setting Method.

(1) Press ***TV/VCR***.
(2) Press and hold down ***DISPLAY*** and ***CH (▼)*** on your remote control.
Then release both buttons.
(3) Within 10 seconds after releasing ***DISPLAY*** and ***CH (▼)***, enter your VCR's two-digit remote control code number using the ***REMOTE KEYPAD*** (refer to the list).
  - The remote control is now ready to send commands to your VCR.

Some brands have more than one remote code listed, due to changes in the remote codes from early to later model years, or due to format differences (VHS/BETA). In such cases, you may have to try more than one code to find the code your VCR accepts.

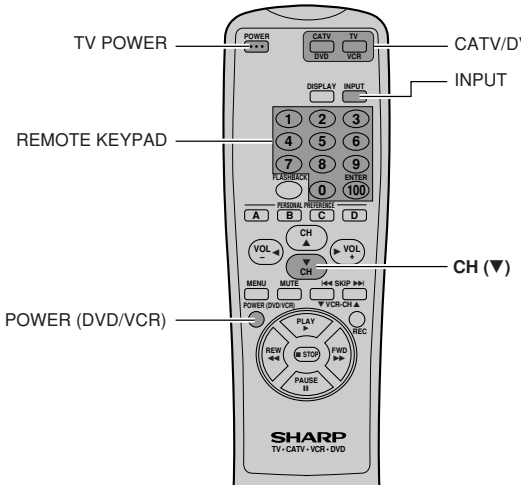
Note:

Depending on the model, year produced, brand, and type of VCR, some models may not be compatible with the remote control.

VCR BRAND	REMOTE CONTROL CODE NUMBER
Akai	25, 26, 37
Audio Dynamics	15, 22, 30
Broksonic	32
Canon	04
Capehart	34
Craig	10, 31
Curtis Mathis	04
Daewoo	34
DBX	15, 22, 30
Dynatech	29
Emerson	21, 32, 35
Fisher	09, 10, 11
Funai	28, 29
GE	04
Goldstar	24
Hitachi	06
Instant Replay	04
JC Penney	04, 06, 24, 30
JVC	15, 41, 42
Kenwood	14, 15
Lloyds	29
Magnavox	04, 05, 08
Magnin	31
Marantz	30
Memorex	04, 10, 24, 29
Minolta	06
Mitsubishi	17, 18, 39, 40
Montgomery Ward	02, 43
Multitech	29
NEC	15, 22, 30
Panasonic	04, 44, 45
Pentax	05, 06
Philco	04, 05
Philips	04, 05, 08
Quasar	04
RCA	06, 07, 33
Realistic	01, 02, 10, 24
Samsung	23, 31
Sanyo	14, 10
Scott	20
Sears	06, 11, 24
Sharp	01, 02, 03
Shintom	36
Sony	12, 13, 38
Sound Design	29
Sylvania	04, 05, 08
Symphonic	29
Tatung	15
Teac	15, 29
Teknika	27, 29
Thomas	29
TMK	21
Toshiba	19, 20
Video Concepts	30
Yamaha	15, 29, 30
Zenith	16

21FL94_35-41_EN 39 11/3/04, 6:12 pm
Dimension: 140mm x 215mm

Operation of Remote Control (Continued)



- **How To Identify a DVD**

  The remote control may already be set to operate your DVD. Try this initial check before going on to the following "identifying" section.

(1) Press ***CATV/DVD***.
(2) Point remote towards DVD and press ***POWER (DVD/VCR)***.
(3) Does the Remote turn the DVD ON and OFF?
- If yes, the Remote is ready to operate the DVD and no further steps are needed.
- If no, continue to the "identifying" section.

Setting Method.

Refer to the following steps and list to quickly find the remote control code for your accessory DVD.
- First look up your DVD's remote control code number before going through the Setting Method.

(1) Press ***CATV/DVD***.
(2) Press and hold down ***INPUT*** and ***CH (▼)*** on your remote control.
Then release both buttons.
(3) Within 10 seconds after releasing ***INPUT*** and ***CH (▼)***, enter your DVDs two-digit remote control code number using ***REMOTE KEYPAD*** (refer to the list).
- The remote control is now ready to send commands to your DVD.

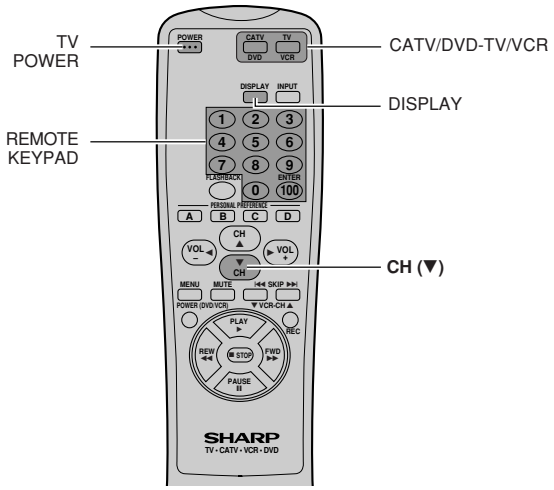
DVD BRAND	REMOTE CONTROL CODE NUMBER
Denon	02
JVC	09
Magnavox	04
Marantz	04
Mitsubishi	06
Panasonic	02
Philips	04
Pioneer	08
Proscan	03
RCA	03
Samsung	07
Sharp	01, 10
Sony	05
Toshiba	04
Yamaha	02
Zenith	04

Note:

Depending on the model, year produced, brand, and type of DVD, some models may not be compatible with the remote control.

21FL94_35-41_EN 40 11/3/04, 6:12 pm
Dimension: 140mm x 215mm

Operation of Remote Control (Continued)



- **How to identify a cable converter**

  Setting Method.
  Refer to the following steps and list to quickly find the remote control code for your cable TV converter.
  - First look up your converter's remote code number before going through the Setting Method below.

(1) Press ***CATV/DVD***.
(2) Press and hold down ***DISPLAY*** and ***CH (▼)*** on your remote control.
Then release both buttons.
(3) Within 10 seconds after releasing ***DISPLAY*** and ***CH (▼)***, enter your converter's two-digit code number using ***REMOTE KEYPAD*** (refer to the list).
  - The remote control is now ready to send commands to your converter.
  - Some brands have more than one remote code listed due to changes in the remote codes from early to later model years. In such cases, you may have to try more than one code to find the code your converter accepts.

Note:

Depending on the model, year produced, brand, and type of CATV converter, some models may not be compatible with the remote control.

CATV CONVERTER BRAND	REMOTE CONTROL CODE NUMBER
Anvision	07, 08
Cable Star	07, 08
Eagle	08
General Instrument	04, 05, 15, 23, 24, 25, 30, 36
Jerrold	04, 05, 15, 23, 24, 25 30, 36
Magnavox	07, 08, 19, 25, 28, 29, 32, 33, 40, 41
Oak Sigma	18
Panasonic	27, 39
Philips	07, 08, 19, 26, 28, 29, 32, 33, 40, 41
Pioneer	18, 20
Randtek	07, 08
RCA	27, 43
Scientific Atlanta	03, 22, 42
Sony	44
Viewstar	07, 08, 19, 26, 28, 29 32, 33, 40, 41
Zenith	14

21FL94_35-41_EN 41 11/3/04, 6:12 pm
Dimension: 140mm x 215mm

Specifications

MODEL			21FL94
Receiving System			NTSC
Stereo Broadcast			MTS/SAP
Reception Channels			
	AIR	VHF	2-13 ch
		UHF	14-69 ch
	CATV		1-125 ch
Channel Tuning			181-channel Reception PLL tuning system
Antenna Input Impedance			VHF/UHF 75 ohm Unbalanced
Screen Size (Visible Area)			21″ Diagonally Measured (50.8 cm)
Terminals			Audio/Video input x 2 (Front x 1, Rear x 1), COMPONENT-IN x 1 (Rear), Audio Output x 1 (Rear)
Sound Output			4 W (RMS) x 2
Power Source			AC 110-220 V, 50/60 Hz
Power Consumption			90 W
Dimensions (W) x (H) x (D)			$23^{25}/_{64}$″ x $18^{33}/_{64}$″ x $19^{1}/_{64}$″ [594 mm x 470 mm x 485 mm]
Weight (approx.)			56.2 lbs. (25.5 kg)

• Design and specifications are subject to change without notice.

21FL94_42-44_EN 42 19/3/04, 11:53 am
Dimension: 140mm x 215mm

Before Calling for Service

Check these items and see if you can correct the trouble with a slight adjustment of the controls.

QUICK SERVICE CHECK LIST / PROBLEM	No Playback of VCR and Disc Player	No Picture or Sound from External Video/Audio Products	Remote Control Doesn't Work	Bars on Screen	Picture Distorted	Picture Rolls Vertically	No Color	Poor Reception on Some Channels	Weak Picture	Lines or Streaks in Picture	Ghosts in Picture	Picture Blurred	Sound OK, Picture Poor	Picture OK, Sound Poor	No Picture or Sound	Dark and Blank Picture	External Electrical Noise Interfering with TV's Operation	Color on Part of the Screen Appears Distorted
POSSIBLE REMEDY																		
Try a new channel, if OK, then there is possible station trouble.					X	X	X	X	X	X	X	X	X	X	X			
Is TV plugged in? Power at outlet?		X	X												X			
Is TV's ***POWER*** on?		X													X			
Is antenna connected to terminal on the back of the set?							X	X	X		X		X		X			
If outside antenna is being used, check for broken wire.				X	X	X	X	X	X	X	X	X	X		X			
Check for local interference or external electrical noise.				X	X	X		X	X	X	X		X	X			X	
Turn off with **POWER** and then turn it on after about a minute.		X													X			
Adjust COLOR control.							X											
Adjust PICTURE control.									X				X					
Check external Video/Audio products: look for loose/broken connection leads. (Refer to page E 35, E 36)	X	X											X	X	X			
Check batteries of Remote Control.			X															
Press TV/VCR on the remote to select TV mode.			X															
Are audio cables connected firmly? Check the volume level.														X	X			
Is SPEAKER ON? See page E 20, E 21.															X			
Change CLOSED CAPTION mode to "OFF"/ ENERGY SAVE mode to "OFF".																X		
Unplug the TV and plug it in again after two minutes or longer.			X			X	X	X	X				X	X	X	X	X	X

Calling for Service

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Dimension: 140mm x 215mm

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